

CLAIMS

1. A method for manufacturing electrochemical sensors comprising a substrate, an electrode layer and at least a first reagent layer, said method comprising the steps of transporting a continuous web of the substrate past at least two print stations and printing the electrode layer and the first reagent layer on the substrate, one of said print stations printing the electrode layer on the continuous web of substrate and the other said print stations printing the first reagent layer on the continuous web of substrate as it is transported past the print stations.
2. The method of claim 1, wherein the print stations are rotogravure print stations.
3. The method of claim 1, wherein the print stations are cylinder screen printing stations.
4. The method of claim 1, wherein the electrochemical sensors detect glucose.
5. The method of claim 4, wherein the first reagent layer comprises glucose oxidase.
6. The method of claim 1, wherein the disposable electrochemical sensors further comprise a second reagent layer which is deposited on the continuous web substrate by a third print station.
7. The method of claim 6, wherein the electrochemical sensors detect glucose.
8. The method of claim 7, wherein the first reagent layer comprises glucose oxidase.
9. The method of claim 8, wherein the second reagent layer comprises an electron transfer mediator.

10. The method of claim 9, wherein the electron transfer mediator is ferricyanide.
11. The method of claim 1, wherein the print stations which print the electrode layer and the first reagent layer are separate and distinct print stations.
12. The method of claim 11, wherein the continuous web of substrate is transported between the print stations in a continuous process.
13. The method of claim 12, wherein the continuous web of substrate is transported through a dryer between the print stations which print the electrode layer and the first reagent layer.
14. The method of claim 13, wherein the dryer is an infra-red dryer.
15. The method of claim 1, further comprising a sealing post-processing step applied to the web after printing of the electrochemical sensors in which a sealing layer is applied over the electrochemical sensors.
16. The method of claim 15, wherein the sealing layer and the web having the electrochemical sensors printed thereon cooperate to form a sample-receiving chamber which can be opened by cutting the end of a sensor.
17. The method of claim 1, further comprising a cutting post-processing step applied to the web after printing of the electrochemical sensors in which the web is cut into ribbons, each ribbon containing a plurality of sensors.
18. The method of claim 17, wherein each ribbon contains from 5 to 100 sensors.

19. The method of claim 18, further comprising a sealing post-processing step applied to the web after printing of the electrochemical sensors in which a sealing layer is applied over the electrochemical sensors and before the cutting post processing step.
20. The method of claim 19, wherein the sealing layer and the web having the electrochemical sensors printed thereon cooperate to form a sample-receiving chamber which can be opened by cutting the end of a sensor.
21. A cassette comprising a case and a ribbon disposed within the case on which a plurality of disposable electrochemical sensors are provided.
22. The cassette according to claim 21, wherein the electrochemical sensors are for the detection of glucose.
23. An electrochemical sensor for the detection of an analyte such as glucose, wherein the sensor is printed on a substrate and is covered by a sealing layer, said substrate and sealing layer cooperating to form a sealed sample-receiving chamber, and wherein in use the sealed sample-receiving chamber is cut to produce an opening to the sample-receiving for the introduction of analyte to the sample.
24. The sensor according to claim 21, wherein the electrochemical sensor is for the detection of glucose.